

**Trade name:** edding colour-change ink (blue -> neon yellow), contained in: edding 13

**Current version :** 2.0.0, issued: 20.07.2021

**Replaced version:** 1.1.0, issued: 27.08.2020

**Region:** GB

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade name**

**edding colour-change ink (blue -> neon yellow), contained in: edding 13**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

For professional use only

Ink for use in felt pens

**Uses advised against**

Consumer use

### 1.3 Details of the supplier of the safety data sheet

**Address**

edding International GmbH

Bookkoppel 7

D-22926 Ahrensburg

Telephone no. +49 (0) 41 02 / 80 8-0

**Information provided by / telephone**

+49 (0)4102 - 808-0

**Advice on Safety Data Sheet**

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)30 30686 790 (Giftnotruf Berlin)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Eye Irrit. 2; H319

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazard pictograms**



GHS07

**Signal word**

Warning

**Hazard statement(s)**

H319

Causes serious eye irritation.

**Precautionary statement(s)**

P101

If medical advice is needed, have product container or label at hand.

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P102 Keep out of reach of children.  
P337+P313 If eye irritation persists: Get medical advice/attention.

**2.3 Other hazards**  
No data available.

### SECTION 3: Composition/information on ingredients

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Chemical characterization**

Mixture (preparation)

**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	<b>oxalic acid</b>		
	144-62-7 205-634-3 607-006-00-8 01-2119534576-33	Acute Tox. 4; H302 Acute Tox. 4; H312 Eye Dam. 1; H318	< 5.00
			wt%
2	<b>bronopol</b>		
	52-51-7 200-143-0 603-085-00-8 01-2119980938-15	Acute Tox. 4; H302 Acute Tox. 4; H312 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE 3; H335 Aquatic Chronic 1; H410	< 0.50
			wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

**Acute toxicity estimate (ATE) values**

No	oral	dermal	inhalative
2	305 mg/kg bodyweight	1600 mg/kg bodyweight	

**3.3 Other information**

The data subject of this Material Safety Data sheet refer to the ink contained in this product (marker).

### SECTION 4: First aid measures

**4.1 Description of first aid measures**

**General information**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

**After inhalation**

Ensure supply of fresh air.

**After skin contact**

In case of contact with skin wash off immediately with copious amounts of water.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

**After ingestion**

Rinse the mouth thoroughly with water. Call a doctor immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

No data available.

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#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Foam; Carbon dioxide; Dry chemical extinguisher; Water mist

##### Unsuitable extinguishing media

High power water jet

#### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO)

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing.

##### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

#### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

#### 6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When collected, handle material as described under the section heading "Disposal considerations".

#### 6.4 Reference to other sections

No data available.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary).

##### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work.

##### Advice on protection against fire and explosion

Keep away from sources of heat and ignition. Take precautionary measures against static charges.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight.

##### Requirements for storage rooms and vessels

Store product in closed containers.

#### 7.3 Specific end use(s)

No data available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

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### Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	oxalic acid	144-62-7	205-634-3
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Oxalic acid			
	WEL short-term (15 min reference period)	2	mg/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	1	mg/m <sup>3</sup>
<b>2006/15/EC</b>			
Oxalic acid			
	WEL long-term (8-hr TWA reference period)	1	mg/m <sup>3</sup>

### DNEL, DMEL and PNEC values

#### DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	oxalic acid			144-62-7 205-634-3	
	dermal	Long term (chronic)	systemic	2.29	mg/kg/day
	dermal	Short term (acut)	local	0.69	mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	4.03	mg/m <sup>3</sup>
2	bronopol			52-51-7 200-143-0	
	dermal	Long term (chronic)	systemic	2.3	mg/kg/day
	dermal	Short term (acut)	systemic	7	mg/kg/day
	dermal	Long term (chronic)	local	13	µg/cm <sup>2</sup>
	dermal	Short term (acut)	local	13	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	4.1	mg/m <sup>3</sup>
	inhalative	Short term (acut)		12.3	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	4,2	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	4.2	mg/m <sup>3</sup>

#### DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	oxalic acid			144-62-7 205-634-3	
	oral	Long term (chronic)	systemic	1.14	mg/kg/day
	dermal	Long term (chronic)	systemic	1.14	mg/kg/day
	dermal	Short term (acut)	local	0.35	mg/cm <sup>2</sup>
2	bronopol			52-51-7 200-143-0	
	oral	Long term (chronic)	systemic	0.35	mg/kg/day
	oral	Short term (acut)	systemic	1.1	mg/kg/day
	dermal	Long term (chronic)	systemic	1.4	mg/kg/day
	dermal	Short term (acut)	systemic	4.2	mg/kg/day
	dermal	Long term (chronic)	local	8	µg/cm <sup>2</sup>
	dermal	Short term (acut)	local	8	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	1.2	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	3.7	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	1.3	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	1.3	mg/m <sup>3</sup>

#### PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	oxalic acid		144-62-7 205-634-3	
	water	fresh water	0.162	mg/L

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	water	marine water	0.016	mg/L
	water	Aqua intermittent	1.622	mg/L
	sewage treatment plant	-	1550	mg/L
2	<b>bronopol</b>		<b>52-51-7</b> <b>200-143-0</b>	
	water	fresh water	0.01	mg/L
	water	marine water	0.0008	mg/L
	water	Aqua intermittent	0.0025	mg/L
	water	fresh water sediment	0.041	mg/kg dry weight
	water	marine water sediment	0.00328	mg/kg dry weight
	soil	-	0.5	mg/kg dry weight
	sewage treatment plant	-	0.43	mg/L

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

#### Other

Normal chemical work clothing.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### State of aggregation

liquid

#### Form/Colour

liquid

blue

#### Odour

odourless

#### pH value

No data available

#### Boiling point / boiling range

No data available

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<b>Melting point/freezing point</b>	
No data available	
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
Value	> 100 °C
<b>Ignition temperature</b>	
No data available	
<b>Explosive properties</b>	
The product does not have explosive properties.	
<b>Flammability</b>	
No data available	
<b>Lower explosion limit</b>	
No data available	
<b>Upper explosion limit</b>	
No data available	
<b>Vapour pressure</b>	
No data available	
<b>Relative vapour density</b>	
No data available	
<b>Relative density</b>	
No data available	
<b>Density</b>	
Value	0.95 - 1.05 kg/l
<b>Solubility in water</b>	
Comments	soluble
<b>Solubility</b>	
No data available	
<b>Partition coefficient n-octanol/water (log value)</b>	
No data available	
<b>Viscosity</b>	
No data available	
<b>Particle characteristics</b>	
No data available	

## 9.2 Other information

<b>Other information</b>
No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

No data available.

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### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

No data available.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	edding colour-change ink (blue -> neon yellow), contained in: edding 13
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	bronopol	52-51-7	200-143-0
LD50		305	mg/kg bodyweight
Species	rat		
Source	ECHA		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	edding colour-change ink (blue -> neon yellow), contained in: edding 13
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	bronopol	52-51-7	200-143-0
LD50		1600	mg/kg bodyweight
Species	appr. rat		
Source	ECHA		

Acute inhalational toxicity	
No data available	

Skin corrosion/irritation	
No data available	

Serious eye damage/irritation	
No data available	

Respiratory or skin sensitisation	
No data available	

Germ cell mutagenicity	
No data available	

Reproduction toxicity	
No data available	

Carcinogenicity	
No data available	

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**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Information on other hazards**

**Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Toxicity to fish (acute)**

No	Substance name	CAS no.	EC no.
1	bronopol	52-51-7	200-143-0
LC50		35.7	mg/l
Duration of exposure		96	h
Species	Lepomis macrochirus		
Method	EPA OPP 72-1		
Source	ECHA		

**Toxicity to fish (chronic)**

No	Substance name	CAS no.	EC no.
1	bronopol	52-51-7	200-143-0
NOEC		21.5	mg/l
Duration of exposure		49	day(s)
Species	Oncorhynchus mykiss		
Method	OECD 210		
Source	ECHA		

**Toxicity to Daphnia (acute)**

No	Substance name	CAS no.	EC no.
1	bronopol	52-51-7	200-143-0
EC50		1.4	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

**Toxicity to Daphnia (chronic)**

No	Substance name	CAS no.	EC no.
1	bronopol	52-51-7	200-143-0
NOEC		0.27	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

**Toxicity to algae (acute)**

No data available

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

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#### 12.2 Persistence and degradability

No data available.

#### 12.3 Bioaccumulative potential

No data available.

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available.

#### 12.6 Endocrine disrupting properties

No data available.

#### 12.7 Other adverse effects

No data available.

#### 12.8 Other information

##### Other information

Do not discharge product unmonitored into the environment.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

##### Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

### SECTION 14: Transport information

#### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

#### 14.2 Transport IMDG

The product is not subject to IMDG regulations.

#### 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

#### 14.4 Other information

No data available.

#### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

#### 14.6 Special precautions for user

No data available.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulations

**Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

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According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

**Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)**

VOC-value	0.48	%
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## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Creation of the safety data sheet**

UMCO GmbH

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

**Alterations/supplements:**

Alterations to the previous edition are marked in the left-hand margin.

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